Harford Community College

Linear Algebra, Math 217

General Course Syllabus

Instructor: Fary Sami, 
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1) **Access code for MyLab and Mastering (MML) Program:** This provides access to the course materials including the eBook version of the textbook along with its tutorials. Quizzes and homework assignments can only be submitted in the MML program.


3) **Technology:** MATLAB routine is required.

**Catalog Description:** This course presents the fundamentals of linear vector spaces and the associated computational techniques utilized in solving engineering and scientific problems. It covers in details the topics of vectors, matrix operators, linear systems of equations, eigen problems, direct and iterative solution techniques, linear transformations, and inner product spaces, Prerequisites: Math 203.

**Student Learning Outcomes:**

Upon successful completion of the course the student will:

1. Present basic concepts of matrices and matrix algebra.
2. Apply solution methods of linear systems for various problems.
3. Define and apply linear transformation theory.
4. Find eigenvalues and eigenvectors and apply them to problems.
5. Analyze vector spaces.
6. Use MATLAB or other numerical software for computational Linear Algebra.
7. Develop knowledge of the central ideas of linear algebra and their applications in science, engineering, economics, computer science and other technical fields.

**Assessment:**

Homework will be available in MML. Exams will be both on line and in written formats and will be proctored. MATLAB program will be used for projects.
IMPORTANT: Students are responsible to make certain that they have access to a reliable computer and internet connection for completing the assignments. Instructor can not help with technical problems. For problems related to MML contact the technical support 1-800-677-6337.

General Statements:

- **Disability Support Services:**
  
  HCC is committed to serving students who have documented physical, learning, psychological, or other disabilities. Students who have a disability are responsible for contacting Disability Support Services at 443-412-2402 to discuss their needs for accommodations. All information shared with Disability Support Services will be held in confidence.

- **Academic Dishonesty:**
  
  Students will be familiar with and adhere to the policy governing academic dishonesty and its sanctions as written in the HCC Catalog.

- **Student Conduct:**
  
  Students will be familiar with and adhere to the policies and sanctions governing student conduct as written in the HCC Catalog.

- **Syllabus Modification:**
  
  The instructor reserves the right to modify and/or change the course syllabus with reasonable notification to students.

- **Student Services:**
  
  For information regarding HCC Student Services, visit the college’s web site.

- **Federal Credit Hour Definition Statement:**
  
  For a 15 week semester, each credit hour represents one hour of classroom or direct faculty instruction and a minimum of two hours of outside class-work per week. For terms that are less than 15 weeks, students should also spend a minimum of two hours outside of class for every hour in class. Academic activities include, but are not limited to reading, writing, studying, research, and completing worksheets. In addition, at least an equivalent amount of out of class work is required for laboratory work, internships, practica, studio work, etc.